



G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade |

Accredited by NBA (CSE, ECE & EEE) | Affiliated to JNTUA)

Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

DATE: 03-04-2021

To

The Principal,
GPCET,
Kurnool.

Sir,

Sub: Approval of ADD-ON course for III CE & IV CE Students-Regd

The department of CE requests you to accept the proposal for conducting ADD-ON Course on "Design of Long columns" for the even semester of III & IV year CE students scheduled for the duration of 42 hours. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely


HOD-CE

PRINCIPAL

G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)



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Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

Department Circular –ADD-ON Course

DATE: 04-04-2021

The III year & IV year-I semester CE Students are informed to enroll their names for ADD-ON Course on “Design of long columns” with their respective class-in-charges on or before 16-04-2021. The course commences from 19th April and the duration of the course is for 42 hours. The course is conducted from 4 pm to 5 pm regularly.

Bus facility is made available soon after the class work.

HOD-CE

SYLLABUS FOR ADD-ON COURSE ON DESIGN OF LONG COLUMNS

DAY	TOPICS
1	Introduction to Reinforced Concrete Structures
2	Design methods of Reinforced Concrete Structures
3	Characteristic strengths and loads
4	Design process and basis for design
5	Introduction to Short and long columns
6	Limit state design
7	Helical columns
8	Spiral columns
9	Effective length
10	Reinforcement detailing
11	Bi axial failures
12	Uniaxial and biaxial loading
13	Design problems
14	Eulers method
15	Shear reinforcement
16	Check for shear
17	Slenderness ratio
18	Unsupported length
19	Bi axial bending
20	Column subjected to moment
21	Reinforcement details
22	Detailing
23	Design problems
24	Design problems



25	Design problems
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Hay

G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ADDON COURSE SCHEDULE

Date: 11/04/2021

III & IV YEAR – II Semester		
Course	Faculty	Duration
Introduction to Reinforced Concrete Structures	C G Mohan Babu	1 hours
Design methods of Reinforced Concrete Structures	C G Mohan Babu	1 hours
Characteristic strengths and loads	C G Mohan Babu	1 hours
Design process and basis for design	C G Mohan Babu	1 hours
Introduction to Short and long columns	C G Mohan Babu	1 hours
Limit state design	C G Mohan Babu	1 hours
Helical columns	C G Mohan Babu	1 hours
Spiral columns	C G Mohan Babu	2 hours
Effective length	C G Mohan Babu	1 hours
Reinforcement detailing	C G Mohan Babu	2 hours
Bi axial failures	C G Mohan Babu	1 hours
Uniaxial and biaxial loading	C G Mohan Babu	2 hours
Design problems	C G Mohan Babu	1 hours
Eulers method	C G Mohan Babu	1 hours
Shear reinforcement	C G Mohan Babu	1 hours



Check for shear	C G Mohan Babu	1 hours
Slenderness ratio	C G Mohan Babu	1 hours
Design problems	C G Mohan Babu	1 hours
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G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL (Autonomous)

Department of Civil Engineering

The following is the list of the students who have attended Add on Course on “C-Programming for Beginners”

S.No	Roll No	Name of the Candidate
1	18AT1A0101	AKASH ANTHONY
2	18AT1A0102	SHAIK APSAR BASHA
3	18AT1A0103	MOHAMMAD ATIFUR RAHMAN
4	18AT1A0104	MOOLA BHARATH KUMAR
5	18AT1A0105	PEDDINTI BHARATHI
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20	18AT1A0120	K MAHENDRA



21	18AT1A0121	P.MAHENDRA REDDY
22	18AT1A0122	SANDHOLI MANOHAR BABU
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58	19AT5A0104	TALLURI SIVAKRISHNA

2017 batch students

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6	17AT1A0108	AKULA JAGANNATH
7	17AT1A0109	DUDEKULA JAMAL BASHA

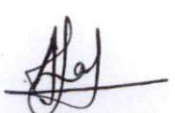
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43	17AT1A0152	L WAJAHAT-UL-KAREEM
44	17AT1A0153	KANDULA YOGA MUKESH
45	17AT1A0154	SHAIK ZARIN TAJ
46	17AT1A0155	SHAIK ZEBA ISMATH
47	17AT1A0156	VADITHE MADHURI
48	17AT1A0157	SHAIK NIDA NAAZ
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58	18AT5A0111	MUNDARINTI VEERESH
59	18AT5A0112	NALLAGOTI VENU





G. PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Department Of Civil Engineering

ADD ON PROGRAM ONLINE



Topic : Design of Long Columns
Target audience : II and III Year Students
Total Courses hrs : 42 hrs
**Selection Procedure : Registration on First
come First serve basis**
Venue : Seminar Hall

FREE

Register
Now

**Date of commencement the course : 19 April, 2021. End of
Course : 28 June, 2021. Exam Date: 29 June, 2021.**



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1. Eccentrically loaded columns have to be designed for combined axial and _____
 - a) Shear force
 - b) Bending moments**
 - c) Torsion
 - d) Creep
2. What is the recommended value of effective length if the column is effectively held in position and fixed against rotation in both ends?
 - a) $0.8 l$
 - b) $0.5 l$
 - c) $0.65 l$**
 - d) $0.9 l$
3. What is the minimum value of eccentricity provided in columns?
 - a) 50 mm
 - b) 20 mm
 - c) 30 mm**
 - d) 45 mm
4. The strength of the column with helical reinforcement shall be _____ times the strength of similar column with lateral ties.
 - a) 2.0
 - b) 1.05**
 - c) 3
 - d) 1.5
5. The minimum diameter provided for the longitudinal bars is _____
 - a) 15 mm
 - b) 20 mm**

c) 12 mm

d) 18 mm

6. What is the minimum number of longitudinal bars provided in the rectangular column?

a) 4

b) 5

c) 6

d) 8

7. The ends of _____ shall be properly anchored.

a) Longitudinal reinforcement

b) Transverse reinforcement

c) Torsional reinforcement

d) Shear reinforcement

8. For longitudinal reinforcing bar, the nominal cover should not be less than _____

a) 30 mm

b) 20 mm

c) 40 mm

d) 50 mm

9. Which of the following reservoirs is also known as _____

a) Ground service reservoirs

b) Elevated reservoirs

c) Over head reservoirs

d) Storey reservoirs

10. A system in which water is supplied only for fixed few hours, such system is called _____

a) Closed

b) Intermittent

c) Combined

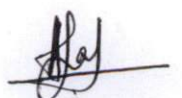
d) Lift

11. In _____ system, air relief valves are not required.

a) Gravity

b) Intermittent

c) Continuous



d) Grid

12. Which of the following is one of the layouts of distribution systems?

a) Dual system

b) Gravity system

c) Grid Iron system

d) Pressure system

13. Which of the following system is also known as an interlaced system?

a) Tree system

b) Grid iron system

c) Circle system

d) Radial system

14. Which of the following is also known as a ring system?

a) Circle

b) Reticulation

c) Radial

d) Interlaced

15. Varignon's theorem is called as _____

a) Principle of Forces

b) Principle of moments

c) Principle of points

d) Theory of couple

16. A column that can support same load in compression as it can in tension is called

a) intermediate column

b) long column

c) short column

d) cannot be determined

17. The strength of compression members subjected to axial compression is defined by curves corresponding to _____ classes

a) a, b, c and d

b) a, d

c) b, e, f

d) e, f, g

18. Which of the following is not a compression member?

a) strut

b) boom

c) tie

d) rafter

19. The best compression member section generally used is

a) single angle section

b) I-section

c) double angle section

d) channel section

20. The best double-angle compression member section is

a) unequal angles with short leg connected

b) unequal angles with long leg connected

c) unequal angles on opposite side of gusset plate

d) unequal angles on same side of gusset plate

21. The flange is classified as semi-compact if outstand element of compression flange of rolled section is less than

a) 8.4ϵ

b) 10.5ϵ

c) 15.7ϵ

d) 9.4ϵ

View Answer

22. The flange is classified as plastic if outstand element of compression flange of rolled section is less than

a) 8.4ϵ

b) 9.4ϵ

c) 10.5ϵ

d) 15.7ϵ

23. The outstand element of compression flange of a rolled section is 10.2 ($\epsilon=1$). The flange will be classified as

a) compact

b) plastic

c) semi-compact

d) slender

24. The design compressive stress of compression member in IS 800 is given by

a) Rankine Formula

b) Euler Formula

c) Perry-Robertson formula

d) Secant-Rankine formula

25. Which of the following reservoirs is also known as _____

a) Ground service reservoirs

b) Elevated reservoirs

c) Over head reservoirs

d) Storey reservoirs





G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY::KURNOOL (Autonomous)

Department of Civil Engineering

The following is the list of the students who have attended Add on Course on “Design of long column”

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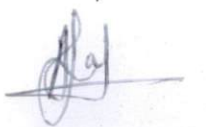
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